MySQL IP Class Notebook

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1 Hospital

 $\mathbf{mysql} \gt \mathbf{select} \ * \mathbf{from} \ \mathbf{HOSPITAL} \ \mathbf{where} \ \mathbf{NAME} \ \mathbf{like} \ '\underline{\underline{}} ';$

NO	NAME	AGE	DEPARTMENT	DATEOFADMIN	CHARGE	SEX
6	Siju	23	Cardiology	2006-10-10	800	M
10	Hari	28	Surgery	2006-03-19	450	M

 $^{2 \}text{ rows in set } (0.00 \text{ sec})$

mysql> update HOSPITAL set CHARGE=CHARGE-200 where SEX='F' and DE-PARTMENT='Cardiology';

Query OK, 1 row affected (0.11 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from HOSPITAL;

NO	NAME	AGE	DEPARTMENT	DATEOFADMIN	CHARGE	SEX
1	Arpit	62	Surgery	2006-01-21	300	M
2	Zayana	18	ENT	2005-12-12	250	F
3	Kareem	68	Orthopedic	2006-02-19	450	M
4	Abhilash	26	Surgery	2006-11-24	450	M
5	Dhanya	24	ENT	2006-10-20	350	F
6	Siju	23	Cardiology	2006-10-10	800	M
7	Ankita	16	ENT	2006-04-13	100	F
8	Divya	20	Cardiology	2006-11-10	300	F
9	Nidhin	25	Orthopedic	2006-05-12	700	M
10	Hari	28	Surgery	2006-03-19	450	M

10 rows in set (0.00 sec)

mysql> insert into HOSPITAL values (11, 'Rakesh', 45, 'ENT', 20080808, 1200, 'M'); ERROR 1406 (22001): Data too long for column 'CHARGE' at row 1 mysql> alter table HOSPITAL modify CHARGE char(4); Query OK, 10 rows affected (1.96 sec) Records: 10 Duplicates: 0 Warnings: 0

 $\mathbf{mysql}{>}$ insert into HOSPITAL values (11, 'Rakesh', 45, 'ENT', 20080808, 1200, 'M'); Query OK, 1 row affected (0.08 sec)

mysql> delete from HOSPITAL where AGE>60; Query OK, 2 rows affected (0.11 sec) mysql> select * from HOSPITAL;

NO	NAME	AGE	DEPARTMENT	DATEOFADMIN	CHARGE	SEX
2	Zayana	18	ENT	2005-12-12	250	F
4	Abhilash	26	Surgery	2006-11-24	450	M
5	Dhanya	24	ENT	2006-10-20	350	F
6	Siju	23	Cardiology	2006-10-10	800	M
7	Ankita	16	ENT	2006-04-13	100	F
8	Divya	20	Cardiology	2006-11-10	300	F
9	Nidhin	25	Orthopedic	2006-05-12	700	M
10	Hari	28	Surgery	2006-03-19	450	M
11	Rakesh	45	ENT	2008-08-08	1200	M

9 rows in set (0.00 sec)

mysql> insert into HOSPITAL values (12, 'Rakhi', 45, 'ENT', 20070802, NULL, 'F'); Query OK, 1 row affected (0.06 sec)

 $\mathbf{mysql}{>}$ insert into HOSPITAL values (13, 'Nishi', 45, NULL, 20090801, 450, 'F'); Query OK, 1 row affected (0.08 sec)

mysql> select * from HOSPITAL;

NO	NAME	AGE	DEPARTMENT	DATEOFADMIN	CHARGE	SEX
2	Zayana	18	ENT	2005-12-12	250	F
4	Abhilash	26	Surgery	2006-11-24	450	M
5	Dhanya	24	ENT	2006-10-20	350	F
6	Siju	23	Cardiology	2006-10-10	800	M
7	Ankita	16	ENT	2006-04-13	100	F
8	Divya	20	Cardiology	2006-11-10	300	F
9	Nidhin	25	Orthopedic	2006-05-12	700	M
10	Hari	28	Surgery	2006-03-19	450	M
11	Rakesh	45	ENT	2008-08-08	1200	M
12	Rakhi	45	ENT	2007-08-02	NULL	F
13	Nishi	45	NULL	2009-08-01	450	F

mysql> select count(DEPARTMENT) from HOSPITAL;

count(DEPARTMENT)
10

1 row in set (0.00 sec)

mysql> select count(*) from HOSPITAL;



1 row in set (0.00 sec)

mysql> select SUM(CHARGE) from HOSPITAL where SEX='F';

SUM(CHARGE)	
1450	

1 row in set (0.00 sec)

2 Schoolbus

mysql> select * from Schoolbus where CAPACITY>NOOFSTUDENTS order by RTNO;

++					
++					
11 Moti Bagh	35	32	10	Kisan Tours	35000
3 Pitampura	60	55	30	Anand Travels	60000
+	-+	-+	-+	-++	·+

2 rows in set (0.04 sec)

mysql> Select AREACOVERED from SchoolBus where DISTANCE>20 and CHARGES<80000;

AREACOVERED
Pitampura

mysql> Select TRANSPORTER, sum(NOOFSTUDENTS) from Schoolbus group by TRANSPORTER;

TRANSPORTER	sum(NOOFSTUDENTS)
Anand Travels	225
Bhalla Co.	60
Kisan Tours	132
Shivam Travels	120
Speed Travels	160
Yadav Co.	190

6 rows in set (0.06 sec)

mysql> Select TRANSPORTER, sum(NOOFSTUDENTS) from Schoolbus group by TRANSPORTER Order by 2 DESC;

TRANSPORTER	sum(NOOFSTUDENTS)
Anand Travels	225
Yadav Co.	190
Speed Travels	160
Kisan Tours	132
Shivam Travels	120
Bhalla Co.	60

6 rows in set (0.00 sec)

mysql> select RTNO, AREACOVERED, CHARGES/NOOFSTUDENTS as "AVERAGE COST PER STUDENT" from SchoolBus;

RTNO	AREACOVERED	AVERAGE COST PER STUDENT
1	Vasant Kunj	833.3333333333334
2	Hauz Khas	1062.5
3	Pitampura	1090.909090909091
4	Rohini	1111.11111111111
5	Yamuna Vihar	916.666666666666
6	Krishna Nagar	1000
7	Vasundhara	909.0909090909091
8	Paschim Vihar	1375
9	Saket	833.3333333333334
10	Jank Puri	950
11	Moti Bagh	1093.75

11 rows in set (0.06 sec)

mysql> Insert into SchoolBus values (11, "Moti Bagh", 35, 32, 10, "Kisan Tours", 35000); Query OK, 1 row affected (0.66 sec)

mysql> Select sum(DISTANCE) from SchoolBus where TRANSPORTER='Yadav Co.';

sum(DISTANO	CE)
50	

1 row in set (0.02 sec)

mysql> Select min(NOOFSTUDENTS) from SchoolBus;

min(NOOFSTUDENTS)
100

1 row in set (0.00 sec)

 $\mathbf{mysql} {>} \ \mathbf{Select} \ \mathbf{avg} (\mathbf{CHARGES}) \ \mathbf{from} \ \mathbf{SchoolBus} \ \mathbf{where} \ \mathbf{TRANSPORTER} {=} \mathbf{'Anand} \ \mathbf{Travels'};$

avg(CHARGES) 81666.6666666667

1 row in set (0.01 sec)

mysql> Select Distinct TRANSPORTER from SchoolBUs;

TRANSPORTER
Shivam Travels
Anand Travels
Bhalla Co.
Yadav Co.
Speed Travels
Kisan Tours

6 rows in set (0.00 sec)

3 Graduate

mysql> Select NAME from GRADUATE where DIVI="I" order by NAME;

NAME
ARJUN
DIVYA
DIWAKAR
JOHN
KARAN
REKHA
ROBERT
RUBINA

8 rows in set (0.02 sec)

 $\mathbf{mysql}>$ Select NAME, STIPEND, SUBJECT, STIPEND*12 as "AMOUNT OF STIPEND RECIEVED IN A YEAR" from GRADUATE;

NAME	STIPEND	SUBJECT	AMOUNT OF STIPEND RECIEVED IN A YEAR
KARAN	400	PHYSICS	4800
DIWAKAR	450	COMP SC	5400
DIVYA	300	CHEMISTRY	3600
REKHA	350	PHYSICS	4200
ARJUN	500	MATHS	6000
SABINA	400	CHEMISTRY	4800
JOHN	250	PHYSICS	3000
ROBERT	450	MATHS	5400
RUBINA	500	COMP SC	6000
VIKAS	400	MATHS	4800

mysql> select count(*) from GRADUATE where SUBJECT="PHYSICS" or SUBJECT="COMP SC";

1 row in set (0.05 sec)

mysql> insert into GRADUATE values (11, "KAJOL", 300, "COMP SC", 75, 1); Query OK, 1 row affected (0.11 sec)

mysql> Select min(AVERAGE) from GRADUATE where SUBJECT="PHYSICS";

1 row in set (0.00 sec)

mysql> Select SUM(STIPEND) from GRADUATE where DIVI="II";

1 row in set (0.00 sec)

mysql> Select AVG(STIPEND) from GRADUATE where AVERAGE>=65;

1 row in set (0.00 sec)

mysql> select COUNT(DIstinct SUBJECT) from GRADUATE;

COUNT(DIstinct SUBJECT)	
4	

1 row in set (0.06 sec)

4 Books and Issued

mysql> select BookName, AuthorName, Price from book where Publisher='First Publ.';

BookName	AuthorName	Price
The Tears	William Hopkins	650
Thunderbolts	Anna Roberts	750

2 rows in set (0.00 sec)

mysql> select BookName from book where Type='Text';

BookName
My First C++
C++ Brain Works

2 rows in set (0.00 sec)

mysql> select BookName,Price from book order by price;

BookName	Price
My First C++	350
C++ Brain Works	350
Fast Cook	355
The Tears	650
Thunderbolts	750

 $\mathbf{mysql}>$ update book set Price=Price+50 where Publisher='EPB'; Query OK, 1 row affected (0.15 sec) Rows matched: 1 Changed: 1 Warnings: 0

mysql> select count(*) from book;

count(*)	
5	

1 row in set (0.00 sec)

mysql> select book.bookid, bookname, quantityissued from book, issued where book.bookid=issued.book

bookid	bookname	quantityissued
T0001	My First C++	4
C0001	Fast Cook	5
F0001	The Tears	2

3 rows in set (0.00 sec)

mysql> select max(price) from book where quantity>=15;

1 row in set (0.00 sec)

mysql> select bookname, authorname from book where publisher='First Publ.';

bookname	authorname
The Tears	William Hopkins
Thunderbolts	Anna Roberts

2 rows in set (0.00 sec)

mysql> select count(distinct publisher) from book where price>=400;

count(distinct publisher)
2

1 row in set (0.04 sec)

5 Items and Company

5.1 (I)

mysql> select PNAME,PRICE*QTY from ITEMS,COMPANY where ITEMS.ID=COMPANY.ID and City='Mumbai';

PNAME	PRICE*QTY
Soap	2400
Deodorant	5750

2 rows in set (0.01 sec)

5.2 (II)

mysql> select PNAME, COMP, PRICE from ITEMS, COMPANY where ITEMS.ID=COMPANY.ID;

PNAME	COMP	PRICE
Soap	HLL	12
Paste	Colgate	39.5
Deodorant	HLL	125
Hair Oil	Paras	28.75
Cold Cream	Ponds	66
Tooth Brush	Wipro	25

6 rows in set (0.00 sec)

5.3 (III)

 $\mathbf{mysql}>$ delete from ITEMS where MDATE<20070101; Query OK, 2 rows affected (0.06 sec)

mysql> Select * from ITEMS;

ID	PNAME	PRICE	MDATE	QTY
T001	Soap	12	2007-03-11	200
T003	Deodorant	125	2007-06-12	46
T004	Hair Oil	28.75	2007-09-25	325
T005	Cold Cream	66	2007-10-09	144

4 rows in set (0.02 sec)

5.4 (IV)

mysql> update ITEMS set QTY=QTY+20 where PNAME='Soap' or PNAME='Paste';
Query OK, 1 row affected (0.05 sec) Rows matched: 1 Changed: 1 Warnings: 0
mysql> Select * fRom ITEMS;

ID	PNAME	PRICE	MDATE	QTY
T001	Soap	12	2007-03-11	220
T003	Deodorant	125	2007-06-12	46
T004	Hair Oil	28.75	2007-09-25	325
T005	Cold Cream	66	2007-10-09	144

4 rows in set (0.00 sec)

5.5 (V)

mysql> select count(*) from ITEMS,COMPANY where ITEMS.ID=COMPANY.ID;

count(*)
4

1 row in set (0.02 sec)

5.6 (VII)

 $\mathbf{mysql} > \mathbf{select}\ \mathbf{count}(*)\ \mathbf{from}\ \mathbf{COMPANY}\ \mathbf{where}\ \mathbf{COMP}\ \mathbf{like}\ \mathbf{'P}____';$

1 row in set (0.03 sec)

5.7 (VIII)

mysql> select PNAME from ITEMS where QTY<100;

PNAME
Deodorant

1 row in set (0.00 sec)

6 Activity and Coach

mysql> select ActivityName, Acode from Activity order by Acode DESC;

ActivityName	Acode
Discus Throw	1008
Long Jump	1005
Shot Put	1003
High Jump	1002
Relay 100x4	1001

5 rows in set (0.00 sec)

mysql> select prizemoney, participantsnum from activity;

prizemoney	participantsnum
10000	16
12000	10
8000	12
9000	12
15000	10

5 rows in set (0.00 sec)

mysql> select name, Acode from coach order by acode;

name	Acode
Ahmad Hussain	1001
Janila	1001
Naaz	1003
Ravinder	1008

4 rows in set (0.00 sec)

 $\mathbf{mysql}{>}$ select * from ACTIVITY where Schedule Date<'20040101' order by Participants Num;

ACode	ActivityName	ParticipantsNum	PrizeMoney	ScheduleDate
1002	High Jump	10	12000	2003-12-12

mysql> Select count(distinct ParticipantsNum) from activity;

count(distinct ParticipantsNum)
3

1 row in set (0.00 sec)

mysql> Select max(ScheduleDate), min(ScheduleDate) from activity;

max(ScheduleDate)	min(ScheduleDate)
2004-03-19	2003-12-12

1 row in set (0.00 sec)

mysql> select sum(PrizeMoney) from Activity;

sum(PrizeMoney)
54000

1 row in set (0.00 sec)

mysql> SELECT DISTINCT ParticipantsNum from ACTIVITY;

ParticipantsNum
16
10
12

3 rows in set (0.00 sec)

mysql> select activity.acode, activityname, name from activity,coach where prizemoney>10000 and activity.acode=coach.acode;

acode	activityname	name
1008	Discus Throw	Ravinder

1 row in set (0.00 sec)

7 Employees and EMPSALARY

mysql> select * from employees;

EmpId	FirstName	LastName	Address	City
10	Ravi	Kumar	Raj Nagar	GZB
105	Harry	Waltor	Gandhi Nagar	GZB
152	Sam	Tones	33 Elm St.	Paris
215	Sarah	Ackerman	440 U.S. 110	Upton
244	Manila	Sengupta	24 Friends Street	New Delhi
300	Robert	Samuel	9 Fifth Cross	Washington
335	Ritu	Tondon	Shastri Nagar	GZB
400	Rachel	Lee	121 Harrison St.	New York
441	Peter	Thompson	11 Red Road	Paris

9 rows in set (0.11 sec)

mysql> select * from empsalary;

EmpId	Salary	Benefits	Designation
10	75000	15000	Manager
105	65000	15000	Manager
152	80000	25000	Director
215	75000	12500	Manager
244	50000	12000	Clerk
300	45000	10000	Clerk
335	40000	10000	Clerk
400	32000	7500	Salesman
441	28000	7500	Salesman

mysql> select firstname, lastname, address, city from employees where city='Paris';

firstname	lastname	address	city
Sam	Tones	33 Elm St.	Paris
Peter	Thompson	11 Red Road	Paris

2 rows in set (0.00 sec)

mysql> select * from employees order by firstname desc;

EmpId	FirstName	LastName	Address	City
215	Sarah	Ackerman	440 U.S. 110	Upton
152	Sam	Tones	33 Elm St.	Paris
300	Robert	Samuel	9 Fifth Cross	Washington
335	Ritu	Tondon	Shastri Nagar	GZB
10	Ravi	Kumar	Raj Nagar	GZB
400	Rachel	Lee	121 Harrison St.	New York
441	Peter	Thompson	11 Red Road	Paris
244	Manila	Sengupta	24 Friends Street	New Delhi
105	Harry	Waltor	Gandhi Nagar	GZB

9 rows in set (0.00 sec)

 $\mathbf{mysql}>$ select first name, lastname, salary from employees, empsalary where employees.empid=empsalary.empid;

firstname	lastname	salary
Ravi	Kumar	75000
Harry	Waltor	65000
Sam	Tones	80000
Sarah	Ackerman	75000
Manila	Sengupta	50000
Robert	Samuel	45000
Ritu	Tondon	40000
Rachel	Lee	32000
Peter	Thompson	28000

9 rows in set (0.06 sec)

 $\mathbf{mysql}{>}$ select max (salary) from empsalary where designation="Manager" or designation="Clerk"; max(salary) 75000

1 row in set (0.00 sec)

mysql> mysql> select firstname, salary from employees, empsalary where designation="Salesman" and Employees.empid=Empsalary.empid;

firstname	salary
Rachel	32000
Peter	28000

2 rows in set (0.00 sec)

mysql> select count(distinct designation) from empsalary;

C	ount(distinct designation)
4	

1 row in set (0.00 sec)

mysql> select designation, sum(salary) from empsalary group by designation having count(*)>2;

designation	sum(salary)
Clerk	135000
Manager	215000

2 rows in set (0.00 sec)

mysql> select sum(benefits) from empsalary where designation="Clerk";

sum(benefits)
32000

1 row in set (0.02 sec)

8 Products

mysql> create table products(productID integer, productcode varchar(30), name varchar(30), quantity integer, price decimal(10,2)); Query OK, 0 rows affected (0.09 sec)

 $\mathbf{mysql}>$ insert into products values(1001, "pen", "pen red",5000,1.23); Query OK, 1 row affected (0.03 sec)

mysql> insert into products values(1002,"pen","pen blue",8000,1.25); Query OK, 1 row affected (0.04 sec)

mysql> insert into products values(1003, "pen", "pen black", 2000, 1.25); Query OK, 1 row affected (0.03 sec)

 $\mathbf{mysql}>$ insert into products values(1004,"pec","pencil 2B",10000,0.48); Query OK, 1 row affected (0.04 sec)

 $\mathbf{mysql}{>}$ insert into products values(1005, "pec", "pencil 2H", 8000, 0.49); Query OK, 1 row affected (0.03 sec)

 $\mathbf{mysql}>$ insert into products values(1006, "pec", "pencil HB", 0,9999999.99); Query OK, 1 row affected (0.07 sec)

mysql> select * from products;

productID	productcode	name	quantity	price
1001	pen	pen red	5000	1.23
1002	pen	pen blue	8000	1.25
1003	pen	pen black	2000	1.25
1004	pec	pencil 2B	10000	0.48
1005	pec	pencil 2H	8000	0.49
1006	pec	pencil HB	0	9999999.99

6 rows in set (0.11 sec)

mysql> select name, price from products where price<1.0;

name	price
pencil 2B	0.48
pencil 2H	0.49

2 rows in set (0.04 sec)

mysql> select name, quantity from products where quantity <= 2000;

name	quantity
pen black	2000
pencil HB	0

2 rows in set (0.00 sec)

mysql> select name, price from products where productcode="pen";

name	price
pen red	1.23
pen blue	1.25
pen black	1.25

3 rows in set (0.01 sec)

 $\mathbf{mysql}>$ select name, price from products where name like "pencil%";

name	price
pencil 2B	0.48
pencil 2H	0.49
pencil HB	9999999.99

3 rows in set (0.00 sec)

 $\mathbf{mysql}{>} \ \mathrm{select} \ \mathrm{name,price} \ \mathrm{from} \ \mathrm{products} \ \mathrm{where} \ \mathrm{name} \ \mathrm{like} \ "\mathrm{p}_\%";$

name	price
pen red	1.23
pen blue	1.25
pen black	1.25
pencil 2B	0.48
pencil 2H	0.49
pencil HB	9999999.99

6 rows in set (0.00 sec)

mysql> select*from products where quantity>=5000 and name like "pen%";

productID	productcode	name	quantity	price
1001	pen	pen red	5000	1.23
1002	pen	pen blue	8000	1.25
1004	pec	pencil 2B	10000	0.48
1005	pec	pencil 2H	8000	0.49

 $\mathbf{mysql}>\mathbf{select}^*\mathbf{from}$ products where quantity>=5000 and name like "pen%" and price <1.24;

productID	productcode	name	quantity	price
1001	pen	pen red	5000	1.23
1004	pec	pencil 2B	10000	0.48
1005	pec	pencil 2H	8000	0.49

3 rows in set (0.00 sec)

mysql> select*from products where not(quantity>=5000 and name like "pen%");

productID	productcode	name	quantity	price
1003	pen	pen black	2000	1.25
1006	pec	pencil HB	0	9999999.99

2 rows in set (0.00 sec)

mysql> select*from products where name in("pen red", "pen black");

productID	productcode	name	quantity	price
1001	pen	pen red	5000	1.23
1003	pen	pen black	2000	1.25

2 rows in set (0.00 sec)

mysql> select*from products where (price between 1.0 and 2.0) or (quantity between 1000 and 2000);

productID	productcode	name	quantity	price
1001	pen	pen red	5000	1.23
1002	pen	pen blue	8000	1.25
1003	pen	pen black	2000	1.25

3 rows in set (0.08 sec)

 $\mathbf{mysql}>$ select*from products where $\mathrm{not}((\mathrm{price\ between\ 1.0\ and\ 2.0})$ or (quantity between 1000 and 2000));

productID	productcode	name	quantity	price
1004	pec	pencil 2B	10000	0.48
1005	pec	pencil 2H	8000	0.49
1006	pec	pencil HB	0	9999999.99

3 rows in set (0.00 sec)

 $\mathbf{mysql} > \text{insert into products values} (1006, \text{null}, \text{null}, \text{null}, \text{null});$ Query OK, 1 row affected (0.13 sec)

mysql> select*from products where productcode is null;

productID	productcode	name	quantity	price
1006	NULL	NULL	NULL	NULL

1 row in set (0.00 sec)

mysql> select*from products where productcode= null; Empty set (0.00 sec)

9 Sender and Recipient

mysql> create table sender(senderID varchar(20) primary key, sendername varchar(20), senderaddress varchar(30), sendercity varchar(30)); Query OK, 0 rows affected (0.36 sec)

mysql> insert into sender values("ND01","R Jain","2,ABC Appts","New Delhi"); Query OK, 1 row affected (0.15 sec)

mysql> insert into sender values("MU02","H Sinha","12 Newton","Mumbai"); Query OK, 1 row affected (0.03 sec)

 $\mathbf{mysql}>$ insert into sender values("MU15", "S Jha", "27/A Park Street", "Mumbai"); Query OK, 1 row affected (0.04 sec)

mysql> insert into sender values("ND50", "T Prasad", "122-K, SDA", "New Delhi"); Query OK, 1 row affected (0.04 sec)

mysql> create table recepient(recID varchar(10), senderID varchar(20), recname varchar(30),recaddress varchar (20),receity varchar(20),foreign key(senderID) references sender(senderID)); Query OK, 0 rows affected (0.10 sec)

mysql> insert into recepient values("KO05","ND01","R Bajpayee","5,Central Avenue","Kolkata"); Query OK, 1 row affected (0.05 sec)

mysql> insert into recepient values("ND08","MU02","S Mahajan","116,A Vihar","New Delhi"); Query OK, 1 row affected (0.14 sec)

mysql> insert into recepient values("MU19","ND01","H Singh","2A,Andheri East","Mumbai"); Query OK, 1 row affected (0.04 sec)

mysql> insert into recepient values("MU32","MU15","P k Swamy","B5, CS Terminus","Mumbai"); Query OK, 1 row affected (0.04 sec)

mysql> insert into recepient values("ND48","ND50","S Tripathi","13,B1D,MayurVihar","New Delhi"); Query OK, 1 row affected (0.13 sec)

mysql> select*from sender where sendercity="Mumbai";

senderID	sendername	senderaddress	sendercity
MU02	H Sinha	12 Newton	Mumbai
MU15	S Jha	27/A Park Street	Mumbai

2 rows in set (0.14 sec)

mysql> select recID, sendername, senderaddress, recname, recaddress from sender, recepient where sender. senderID=recepient. senderID;

recID	sendername	senderaddress	recname	recaddress
ND08	H Sinha	12 Newton	S Mahajan	116,A Vihar
MU32	S Jha	27/A Park Street	P k Swamy	B5, CS Terminus
KO05	R Jain	2,ABC Appts	R Bajpayee	5,Central Avenue
MU19	R Jain	2,ABC Appts	H Singh	2A,Andheri East
ND48	T Prasad	122-K,SDA	S Tripathi	13,B1D,MayurVihar

5 rows in set (0.00 sec)

mysql> select*from recepient order by recname;

recID	senderID	recname	recaddress	reccity
MU19	ND01	H Singh	2A,Andheri East	Mumbai
MU32	MU15	P k Swamy	B5, CS Terminus	Mumbai
KO05	ND01	R Bajpayee	5,Central Avenue	Kolkata
ND08	MU02	S Mahajan	116,A Vihar	New Delhi
ND48	ND50	S Tripathi	13,B1D,MayurVihar	New Delhi

mysql> select count(recname), receity from recepient group by receity;

count(recname)	reccity
1	Kolkata
2	Mumbai
2	New Delhi

3 rows in set (0.04 sec)

mysql> select distinct sendercity from sender;

sendercity
Mumbai
New Delhi

2 rows in set (0.00 sec)

mysql> select recname, recaddress from recepient where receity not in ("Mumbai", "Kolkata");

recname	recaddress
S Mahajan	116,A Vihar
S Tripathi	13,B1D,MayurVihar

2 rows in set (0.00 sec)

mysql> select recID, recname from recepient where senderID="MU02" or senderID="ND50";

recID	recname
ND08	S Mahajan
ND48	S Tripathi

2 rows in set (0.00 sec)

mysql> select A.sendername, B.recname from sender A,recepient B where A.senderID=B.senderID and B.reccity="Mumbai";

sendername	recname
S Jha	P k Swamy
R Jain	H Singh

2 rows in set (0.00 sec)